

144
QD
1
S923

ARKIV FÖR KEMI

UTGIVET AV

KUNGL. SVENSKA VETENSKAPS-
AKADEMIEN

Band 28

Med 38 avhandlingar



ALMQVIST & WIKSELL

STOCKHOLM

1968

Häfte 1 innehållande Nr 1- 5 utkom den 12 jan. 1968

» 2	»	Nr 6-13	»	»	16 febr. 1968
» 3	»	Nr 14-20	»	»	29 mars 1968
» 4	»	Nr 21-23	»	»	30 maj 1968
» 5	»	Nr 24-33	»	»	6 juni 1968
» 6	»	Nr 34-38	»	»	20 » 1968

TJUGOÅTTONDE BANDETS INNEHÅLL

Sid.

1. STRANDBERG, B., On the crystal structures of globular proteins as determined by means of X-ray diffraction. With special reference to the molecular structure of Human Erythrocyte Carbonic Anhydrase form C at 5.5 Å resolution	1- 39
2. NYGÅRD, B., OLOFSSON, J. and BERGSON, G., Polarographic investigations of organic selenium compounds. VII. A polarographic study of some inhibiting effects of five-membered cyclic diselenides and disulphides	41- 51
3. OLSSON, K., Polythiaadamantanes. VI. The reaction of aliphatic β -dicarbonyl compounds with thioacetic acid in the presence of zinc chloride: a route to pentathiaadamantanes	53- 74
4. NYGÅRD, B., Polarographic investigations of organic sulphur compounds. I. The polarographic behaviour of five-, six- and seven-membered cyclic disulphides compared with the corresponding dithiols	75- 88
5. NYGÅRD, B., Polarographic investigations of organic sulphur compounds. II. A polarographic study of some 1,2-dithiolane derivatives	89- 97
6. GRONOWITZ, S., SKRAMSTAD, J. E. and ERIKSSON, B., Thiophene analogues of fluorene. I. On the acidity of 1,3,4,6-tetraalkyl-7H-cyclopenta[1,2-c:3,4-c'] dithiophenes	99-107
7. FREDGA, A. and GAMSTEDT, E., Studies on synthetic growth substances. XXVII. Resolution and absolute configuration of 2-methoxy-4,5-dichlorophenoxy-propionic acid	109-113
8. GRONOWITZ, S. and SKRAMSTAD, J. E., Optically active bithienyls. X. Some racemization studies with 4,4'-dicarboxy-2,2',5,5'-tetraethyl-3,3'-bithienyl, 4,4'-dicarboxy-2,2',5,5'-tetramethyl-3,3'-bithienyl and 3,3',6,6'-tetramethyldiphenic acid	115-129
9. IRVING, H. and LEWIS, D., The extraction of indium halides into organic solvents. Part VII. The distribution of indium between hydrochloric acid and binary solvent mixtures containing isobutyl methyl ketone	131-143
10. AGENÅS, L.-B. and LINDGREN, B., Selenocyanation of pyrroles	145-153
11. ÅKESSON, B. and GRONOWITZ, S., Mass spectra of halogenated thiophenes	155-166
12. CLAESON, G. and JONSSON, H.-G., Resolution and configuration of thiophane-3-carboxylic acid	167-177
13. LINDQVIST, O. and WENGELIN, F., POWDER: a computer programme for the refinement of cell dimensions and for the indexing of powder photographs	179-187
14. LUNELL, N.-O. and ODEBLAD, E., An electronic analog computer for studies on the kinetics of glucose in the human body	189-209
15. FREDGA, A. and GAMSTEDT, E., Studies on synthetic growth substances. XXVIII. Resolution and absolute configuration of 3,4-dimethylphenoxypropionic acid	211-215
16. NYGREN, M. and MAGNÉLI, A., Tracing phase transitions by means of high frequency a c measurements using a Q-meter	217-221
17. JAARMA, M., Studies on some chemical, enzymatical and physiological changes in plant material caused by γ -irradiation	223-243
18. WOLD, S. and BERGSON, G., Molecular orbital studies of tautomeric indenenes and the indenyl-ammonium ion pair	245-255

19. NORDBERG, R., ALBRIDGE, R. G., BERGMARK, T., ERICSON, U., HEDMAN, J., NORDLING, C., SIEGBAHN, K. and LINDBERG, B. J., Molecular spectroscopy by means of ESCA. Charge distribution in nitrogen compounds	257-278
20. AURIVILLIUS, K., Least-squares refinement of the crystal structure of $\text{Hg}(\text{OHg})_4\text{Br}_2$	279-288
21. DINH-NGUYỄN, N., Contribution à l'étude de la spectrométrie de masse: utilisation des esters méthyliques de monoacides à longue chaîne normale marqués au deutérium et au carbone-13	289-362
22. HÖRNFELDT, A.-B., Unsaturated γ -thiolactones. VII. Dimerizations of 5-alkyl-substituted thiolene-2-ones	363-374
23. VON HEIDENSTAM, O., Neutron and X-ray diffraction studies on tapiolite and some synthetic substances of trirutile structure	375-387
24. MADSEN, J. Ø. and LAWESSON, S.-O., Contributions to the chemistry of α -substituted sulphides. XI. Addition of trichloromethanesulphenyl chloride to bridged bicyclic olefins	389-394
25. MADSEN, P., PRESTON, F. J. and LAWESSON, S.-O., Syntheses of polyfunctional cyclopropane derivatives	395-404
26. KLEMMENSEN, P., SCHROLL, G. and LAWESSON, S.-O., The reaction between acyloins and secondary amines	405-411
27. SCHROLL, G., COOKS, R. G., KLEMMENSEN, P. and LAWESSON, S.-O., The mass spectra of nitroso compounds	413-422
28. DUUS, F., MADSEN, P., LAWESSON, S.-O., BOWIE, J. H. and COOKS, R. G., Electron impact studies. XIX. Mass spectra of α - and β -mercaptoesters: Skeletal rearrangement upon electron impact	423-433
29. SCHROLL, G., LAWESSON, S.-O., DUFFIELD, A. M. and DJERASSI, C., The fragmentation of some cyanohydrins and O-acylcyanohydrins upon electron impact	435-444
30. WETTERMARK, G. and WALLSTRÖM, E., The proton affinity of a nitrogen atom in a conjugated π -system	445-452
31. BERGSTRÖM, G., KULLENBERG, B., STÄLLBERG-STENHAGEN, S. and STENHAGEN, E., Studies on natural odoriferous compounds. II. Identification of a 2,3-dihydrofarnesol as the main component of the marking perfume of male bumble bees of the species <i>Bombus terrestris</i> L.	453-469
32. LIMINGA, R., Hydrogen bond studies. 27. The crystal structure of hydrazine bismethanol, $\text{N}_2\text{H}_4 \cdot 2\text{CH}_3\text{OH}$, at -90°C	471-481
33. LIMINGA, R., Hydrogen bond studies. 28. On the hydrogen bonds in some crystalline hydrazine compounds	483-504
34. HÖGLUND, S., Electron microscopic studies on some virus and immunoglobulin components	505-537
35. APPELQVIST, L.-Å. and DOWDELL, R. J., Lipids in Cruciferae. V. Triglycerides of seed oils with varying erucic acid content	539-549
36. APPELQVIST, L.-Å., Rapid methods of lipid extraction and fatty acid methyl ester preparation for seed and leaf tissue with special remarks on preventing the accumulation of lipid contaminants	551-570
37. HÖRNFELDT, A.-B., Dimerization of 5-methyl-butenolide	571-586
38. GRONOWITZ, S. and BÖLER, J., Some substitution reactions of 2- and 3-(4-midyl)thiophene	587-602